NanoSpeed™ High Power
1x2 Solid-State Fiberoptic PM Switch

(patent pending)

Features

- Solid-State high speed
- Ultra-high reliability
- Low insertion loss
- Compact size
- Low cost
- Simple driver
- Low power consumption

Applications

- Optical blocking
- Light path redirecting
- Instrumentation

Product Description

The NS High Power Series 1x2 solid-state fiber optic PM switch connects optical channels by redirecting an incoming optical signal into a selected output optical fiber. This is achieved using patented non-mechanical configurations with solid-state all-crystal designs, which eliminates the need for mechanical movement and organic materials. The NS high power fiberoptic PM switch is designed to meet the most demanding switching requirements of ultra-high reliability, fast response time, and continuous switching operation.

The device can be driven by a cost effective circuit with 12 V input voltage and a 0-5 V control signal.

Performance Specifications

NH Series 1x2 PM Switch	Min	Typical	Max	Unit
Operation Wavelength	400		1800	nm
Insertion Loss	0.4	0.6	1.0	dB
IL Temperature Dependency		0.25	0.5	dB
Cross Talk	20	25	35	dB
Extinction ratio	18	25	30	dB
Return Loss	45	50	60	dB
Response Time (Rise, Fall)			300	ns
Repetition Rate	DC	5	300**	KHz
Operating Temperature	-5		70	^{o}C
Optical Power Handling			5***	W
Storage Temperature	-40		85	^{o}C
Fiber Type	Panda PM fiber			
Package Dimension	65.5x23.4x6.5			mm

* Driver kit is recommended
** Special circuit
*** Continuous operation, for pulse operation call

NanoSpeed™ High Power
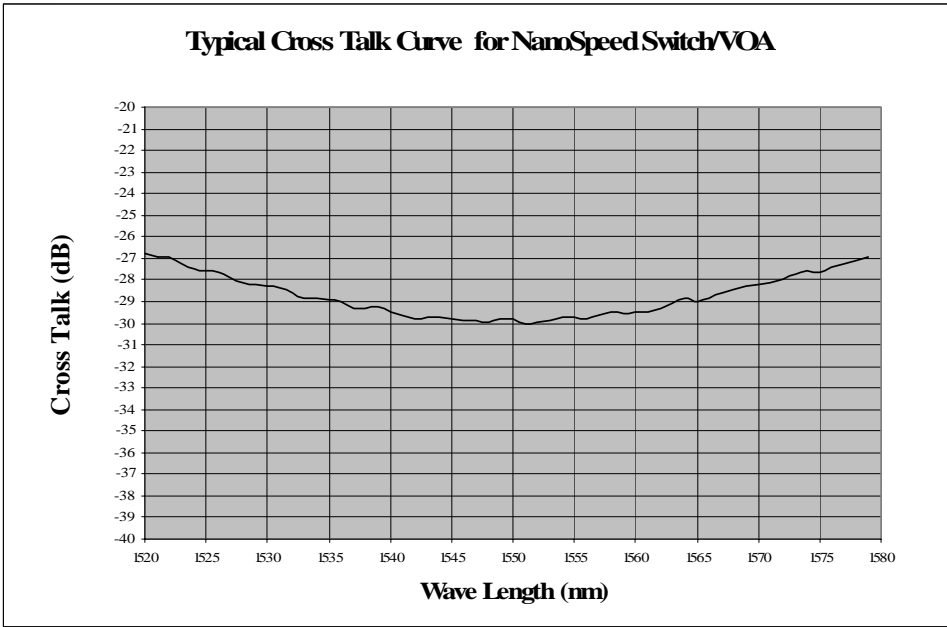# 1x2 Solid-State Fiberoptic PM Switch

Mechanical Dimensions (mm)
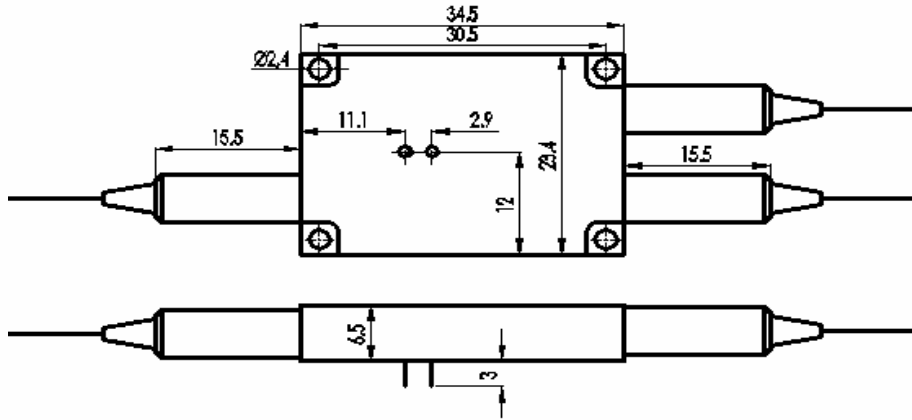
Speed and Repetition Measurement
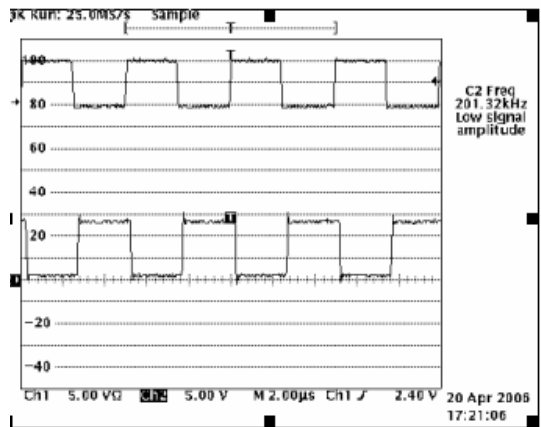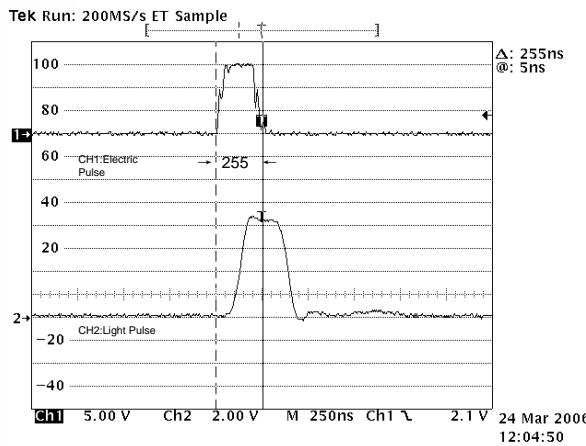
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Bandwidth Measurement

Typical Cross Talk Curve for NanoSpeed Switch/VOA

Ordering Information

NHSW-			Type	Wavelength	Configuration	Package	Fiber Type		Fiber Length	Connector
	☐☐	☐	**1**	**1**	☐	☐	☐	☐	☐	☐
			1X2=12	1550=5 1310=3 Special=0			Panda PM fiber 400=4 Panda PM fiber 250=5 Special=0	Bare fiber =1 900um loose tube=3 Special=0	0.25m=1 0.5m=2 1.0 m=3 Special=0	None=1 FC/PC=2 FC/APC=3 SC/PC=4 SC/APC=5 ST/PC=6 LC=7 Duplex LC=8 Special=0